

Estimating Sums and Differences

key

A. Round the decimals, then add or subtract.

$$\begin{array}{r} 6.4 \\ + 4.3 \\ \hline \end{array}$$

$$\begin{array}{r} 11.26 \\ - 5.87 \\ \hline \end{array}$$

B. **Front-End Estimation**

First: Add the numbers on the left side (front end).

$$\begin{array}{r} 9.42 \\ 5.66 \\ + 7.03 \\ \hline \end{array}$$

Next: Estimate the sum of the remaining digits on the right.

Then: Add your results.

$$21 + 1 = 22$$

Evaluating Algebraic Expressions:

$$x = 6.3 \quad y = 4.7$$

Solve: $8.6 + y$

$$\begin{array}{r} 6.3 \\ + 8.6 \\ \hline \end{array}$$

$x - y$

$$\begin{array}{r} 6.3 \\ - 4.7 \\ \hline \end{array}$$

Use mental math to add decimals:

a) $(4.3 + 2.5) + 7.5 = 4.3 + (2.5 + 7.5)$

$$= 4.3 + 10$$

$$= 14.3$$

b) $3.8 + (5.7 + 1.2) = (3.8 + 1.2) + 5.7$

$$5 + 5.7$$

$$10.7$$